

Title: The development of a direct injection sprayer for turf-grass

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Summary

Golf course superintendents use substantial quantities of pesticides on turf-grass. Apart from cost, they are also under pressure when applying pesticides due to an increasing public awareness of environmental pollution and concern about operator contamination.

A Mid-Tech direct injection system was fitted to the Toro turf-grass sprayer at the Robert Trent Jones golf course at Cornell University. Injection sprayers were developed for use on arable farms in the mid-West but their relative merits are applicable to turf-grass situations. Following initial problems fitting the injection unit to such a small sprayer, the use and management of the injection sprayer was evaluated at the Robert Trent Jones golf course at Cornell University. Field work was carried out, effectiveness of spray activity monitored and operational factors appraised. Results to date show an effective spraying system with no rinsate disposal and a potential for reducing pesticide use.

For a printed copy of the entire report, please contact the NYS IPM office at:

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